

Active Recombinant Human SERPINF1 protein

Cat. No. SERPINF1-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINF1 protein(P36955)(20-418 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	20-418 aa
Form	Lyophilized from a 0.2 µm filtered concentrated solution in 1×PBS, pH7.0, 5%Trehalose, 0.02%Tween-20.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to enhance the adhesion of human Saos2 cells to bovine Collagen I coated plate is less than 2 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 44.4 KDa, a single non-glycosylated polypeptide chain containing 399 amino acids.
AASequence	QNPASPPEEG SPDPDSTGAL VEEEDPFFKV PVNKLAAAVS NFGYDLYRVR SSTSPPTTNVL LSPLSVATAL SALS LGAEQR TESIHRALY YDLISSPDIH GTYKELLDTV TAPQKNLKSA SRIVFEKKLR IKSSFVAPLE KSYGTRPRVL TGNPRLDLQE INNWVQAQMK GKLARSTKEI PDEISILLG VAHFKGQWVT KFDSRKTSLE DFYLDEERTV RVPMMSDPKA VLRYGLDSDL SCKIAQLPLT GSM SIIFFLP LKVTQNLTLI EESLTSEFIH DIDRELKTVQ AVLTVPKLKL

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SYEGEVTKSL QEMKLQSLFD SPDFSKITGK PIKLTQVEHR AGFEWNEDGA
GTTSPGLQP AHLTFPLDYH LNQPPIFVLR DTDGALLFI GKILDPRGP

Endotoxin

Less than 1 EU/μg of rHuPEDF as determined by LAL method.

Purity

> 97 % by SDS-PAGE and HPLC analyses.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

SERPINF1 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 [Homo sapiens]

Official Symbol

SERPINF1

Synonyms

SERPINF1; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; PEDF, serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 1; pigment epithelium-derived factor; EPC 1; PIG35; pigment epithelium derived factor; proliferation inducing protein 35; serpin F1; cell proliferation-inducing gene 35 protein; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment

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epithelium derived factor), member 1; OI6; OI12; PEDF; EPC-1;

Gene ID	5176
mRNA Refseq	NM_002615
Protein Refseq	NP_002606
MIM	172860
UniProt ID	P36955
SDS-PAGE	

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